

United States Patent and Trademark Office



APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/834,700	04/12/2001	Andreas Braun	24736-2035	5035
24961	7590 01/10/2003			•
HELLER EHRMAN WHITE & MCAULIFFE LLP 4350 LA JOLLA VILLAGE DRIVE 7TH FLOOR			EXAMINER	
			GOLDBERG, JEANINE ANNE	
SAN DIEGO	.CA 92122-1246		ART UNIT	PAPER NUMBER
			1634	
			DATE MAILED: 01/10/2003	(0

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	
Office Action Summary		09/834,700	BRAUN, ANDREAS	
		Examiner	Art Unit	
		Jeanine A Goldberg	1634 .	
The Period for Rep		on appears on the cover sheet with the	e correspondence address	
THE MAILI - Extensions o after SIX (6) - If the period in thepriod in the period in the period in the period in the period in	NG DATE OF THIS COMMUNICAT f time may be available under the provisions of 37 MONTHS from the mailing date of this communica for reply specified above is less than thirty (30) day for reply is specified above, the maximum statutory by within the set or extended period for reply will, by	CFR 1.136(a). In no event, however, may a reply be	timely filed days will be considered timely. om the mailing date of this communication. NED (35 U.S.C. § 133).	
1)⊠ Res	ponsive to communication(s) filed c	n <u>20 November 2002</u> .		
2a)∐ This	action is FINAL . 2b)	☑ This action is non-final.		
	ed in accordance with the practice	allowance except for formal matters, under <i>Ex parte Quayle</i> , 1935 C.D. 11		
4)⊠ Clain	n(s) 1-75 is/are pending in the appl	ication.		
4a) O	f the above claim(s) is/are w	ithdrawn from consideration.		
5)☐ Clain	n(s) is/are allowed.			
6)☐ Clain	n(s) is/are rejected.			
7)☐ Clain	n(s) is/are objected to.			
8)⊠ Clain Application Pa	n(s) <u>1-75</u> are subject to restriction a apers	nd/or election requirement.		
9)∐ The s	pecification is objected to by the Ex	aminer.		
10)∐ The di	rawing(s) filed on is/are: a)[accepted or b) objected to by the Ex	kaminer.	
		n to the drawing(s) be held in abeyance.		
11) <u></u> The pi	roposed drawing correction filed on	is: a) approved b) disapp	proved by the Examiner.	
If ap	proved, corrected drawings are require	d in reply to this Office action.		
12) <u></u> The o	ath or declaration is objected to by	the Examiner.		
Priority under	35 U.S.C. §§ 119 and 120			
13)☐ Ackn	owledgment is made of a claim for	foreign priority under 35 U.S.C. § 119	(a)-(d) or (f).	
a)∐ All	b) Some * c) None of:			
1.	Certified copies of the priority doc	uments have been received.		
2.	Certified copies of the priority doc	uments have been received in Applica	ation No	
3.☐ * See th	application from the Internation	e priority documents have been receinal Bureau (PCT Rule 17.2(a)). Ta list of the certified copies not recein		
14)☐ Acknov	wledgment is made of a claim for do	omestic priority under 35 U.S.C. § 119	e) (to a provisional application).	
a) 🔲 T	he translation of the foreign langua	ge provisional application has been romestic priority under 35 U.S.C. §§ 1	eceived.	
Attachment(s)				
2) D Notice of Dra	ferences Cited (PTO-892) aftsperson's Patent Drawing Review (PTO-9 Disclosure Statement(s) (PTO-1449) Paper	48) 5) Notice of Informa	ary (PTO-413) Paper No(s) al Patent Application (PTO-152)	

DETAILED ACTION

- 1. This action is in response to the papers filed November 20, 2002. Currently, claims 1-75 are pending.
- 2. It is noted that the response did not elect a group for prosecution. The restriction requirement set forth on June 21, 2002 has been reconsidered and the modified restriction requirement appears below.

Election/Restrictions

- 3. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-8, 11-20, 44-53, 69-71, 75, drawn to nucleic acids, probes, primers, vectors, cells, kits and methods of producing a polypeptide by culturing cells, classified in class 536, subclass 23.1, 24.31, 24.33, 435/320.1, 325, for example.
 - II. Claims 9-10, 54, drawn to polypeptides, classified in class 530, subclass 350.
 - III. Claims 21-43, 61-68, drawn to methods of detecting nucleic acid variants, classified in class 435, subclass 6.
 - IV. Claims 55-56, drawn to transgenic animals, classified in class 800,subclass 8.
 - V. Claims 57-60, drawn to methods of identifying molecules that modulate biological activity of AKAP10 protein, classified in class 424, subclass 9.2.
 - VI. Claims 72-74, drawn to an anti-AKAP10 ribozyme, classified in class 536, subclass 24.5.

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- 4. The inventions are distinct, each from the other because of the following reasons:
- A) The inventions of Groups I, II, VI and IV are patentably distinct because they are drawn to different products having different structures and functions. The nucleic acid of Group I is composed of nucleotides linked in phospodiester bonds and arranged in space as a double helix. The polypeptide of Group II is composed of amino acids linked in peptide bonds and arranged spatially in a number of different tertiary structures including alpha helices, beta-pleated sheets, and hydrophobic loops (transmembrane domain). The anti-AKAP10 ribozyme of Group VI has UG at the 5' end of the substrate binding. The transgenic animal of Group IV is a composition made up of structurally and functionally complex biological systems. Furthermore, the products of Groups 1, 11, and IV can be used in materially different processes, for example, the DNA of Group I can be used in hybridization assays, the polypeptide of Group II can be used to make fusion protein with an enzymatic function, while transgenic animals can be used to express different proteins other than AKAP10 variant protein. Consequently, the reagents, reaction conditions, and reaction parameters required to make or use each invention are different. Therefore, the inventions of Groups I, II, VI and IV are patentably distinct from each other.
- B) Group (II, IV, VI) and (III, V) are patentable distinct inventions because the protein, transgenic animals and anti-AKAP10 rybozyme of Group II, IV and VI is not relied upon in the method of Group III and V. Instead Group III and V uses nucleic acids. Therefore, the inventions are novel and unobvious over one another.

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- C) The inventions of Group III and V are patentably distinct methods because they each have different objectives, different uses, different reagents and different method steps. The method of Group III is for detecting variants of nucleic acids and for detecting increased susceptibility to morbidity or predisposition for premature or increased or early mortality. Alternatively, the method of Group V is for identifying molecules that modulate the biological activity of AKAP10 protein. Therefore the methods are distinct over one another.
- D) Inventions I and (III and V) are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the nucleic acids of Group I may be used in materially different methods as exemplified by the numerous different methods claimed. Moreover, the nucleic acids may be used in purification methods, aptamer screening methods, hybridization assays, and antisense methods.
- 5. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by the different classifications and their divergent subject matter, restriction for examination purposes as indicated is proper.

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- 6. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to examiner Jeanine Goldberg whose telephone number is (703) 306-5817. The examiner can normally be reached Monday-Friday from 8:00 a.m. to 5:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Jones, can be reached on (703) 308-1152. The fax number for this Group is (703) 305-3014.

Any inquiry of a general nature should be directed to the Group receptionist whose telephone number is (703) 308-0196.

Jeanine Goldberg December 31, 2002

> Supervisory Patent Examiner Technology Center 1600